## CURTIS'S

## Botanical Magazine;

 O R,
## Flower-Garden Difplayed:

IN WHICH

The mof Ornamental Foreign Plants, cultivated in the Open Ground the Green-Houfe, and the Stove, are accurately reprefented in their natural Colours.
to which are added,

Their Names, Clafs, Order, Generic and Specific Characters, according to the celebrated Linntus; their Places of Growth, and Times of Flowering:

TOGETHER WITH
THE MOST APPROVED METHODS OF CULTURE.

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A & W & O & R & K
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Intended for the Ufe of fuch Ladies, Gentlemen, and Gardeners, as wih to become fcientifically acquainted with the Plants they cultivate.

## By $70 H N S I M S$, M. D.

Fellow of the Royal and Linnean Societies.

> VOL. XLI.

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\begin{aligned}
& \text { The Flowers, which grace their native beds, } \\
& \text { Awhile put forth their blufhing heads, } \\
& \text { But, e'er the clofe of parting day, } \\
& \text { They wither, fhrink, and die away: } \\
& \text { But these, which mimic fkill hath made, } \\
& \text { Nor fcorched by funs, nor killed by fhade, } \\
& \text { Shall blufh with lefs inconftant hue, } \\
& \text { Which art at pleafure can renew. } \\
& \text { Lloyd. }
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L O N D O N:
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Printed by Stephen Couchman, Throgmorton-Street. Publifhed by Sherwood, Neely, \& Jones, 20, Paternofer-Row: And Sold by the principal Bookfellers in Great-Britain and Ireland. M DCCC XV.

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## [. 1682 ]

## Convolvulus purpureus ( $\delta$.) varius. Striped-flowered Bindweed.

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## Clafs and Order.

Pentandria Monogynia.
Generic Cbaracter.
Cor. campanulata, plicata. Stigm. 2. Capf. 2-locularis: loculis difpermis.

## Specific CbaraEler and Synonyms.

CONVOLVULUS purpureus; (volubilis) foliis cordatis indivifis, fructibus cernuis, pedicellis incraffatis. Willd. $S p$. Pl. 1. p. 852. Bot. Mag. Nis. 113 et 1005.
(d.) varius; corollis albis caruleo-friatis.

Philip Mileer remarked that there were three or four permanent varieties of this fpecies, which he had not found to change by cultivation. He enumerates one with white, another with red, and a third with pale blue flowers and white feeds. The variety figured at No. 1005 of this work is ftill more remarkable than any of thefe, and has been publifhed by Jacquin in his Hortus Schoenbrunenfis, v. 3. pl. 261, as a diftinct fpecies, under the name of Ipomea difcolor. Weinmann, in his Phytanthozaiconographia, vol. 2. tab. 414 and 415 , has figured four varieties, one of which has a confiderable refemblance to our prefent plant, having blue and white flowers with five red bands; but the colours are not fo neatly defined, being rather in blotches than ftripes.

The Honourable William Herbert communicated the fpecimen from which our drawing was taken, with a remark that he had raifed it from feeds for five generations, without obferving any difpofition in it to change its characters. We have however feen fome flowers all white, and in a bed of them
at Mr. Knight's exotic nurfery, during the prefent fummer, a flower of the ufual purple colour upon the very fame flem with others like our drawing. This obfervation is decifive with refpect to its claim to be confidered as a diftinct fpecies.

Mr. Herbert informs us, that it ripens feeds freely in the greenhoufe, but not fo readily in the open ground. This gentleman received the feeds from Cadiz.

Requires the fame treatment as the other varieties.


Oxalis variabilis, var. albiflora. Whiteflowered variable Wood-Sorrel.


> Clafs and Order.

Decandria Pentagynia.

## Generic Character.

Cal. 5-phyllus. Petala 5, unguibus connexa. Stam. inæqualia: 5 breviora exteriora, bafi comnata. Capf. angulis dehifcens, 5 -gona.

## Specific Cbaracter and Symonyms.

OXALIS variabilis; acaulis, fcapo unifloro foliis longiore flaccido, foliis ternatis fubrotundis, folio intermedio cunciformi, ftylis ftaminibus exterioribus brevioribus. Willd. Sp. Pl. 2. p. 777. Facq. Oxal. 8g. t. 52 et 53.
( .) albiflora; fcapis petiolorum longitudine, limbo corollo magno albo. OXALIS purpurea (@.) foliis totis viridibus, limbo albo. Thunb. Oxal. n. 8. p. 13.
OXALIS grandiftora. Facq. Oxal. n.68. i. 54. ?

In the colour and fize of its flowers, our plant correfponds with the grandifora of Jacquin, which is probably only a variety of variabilis. The red colour on the under furface of the leaves, according to Jaceuin himfelf, is not conftant.

We regret, that not having feen the individual plant from which our drawing was taken, we had no opportunity of examining the proportionate length of the ftyles and ftamens, which JACQuin confiders as a very important and conftant character. We received however two pots of Oxalis variabilis, one with red, the other with white and pale flowers, from Meffrs. Loddiges; many of the flowers of which we examined with care, but were much difappointed to find that the fituation of the ftigmas feemed to vary according to circumftances; fometimes they were placed below the lower feries of anthers,
more frequently between the two feries, and now and then in faded flowers above both.

To us it appeared that, if examined in a very early flate, the two feries of anthers were packed clofe together one upon the other, and the ftigmas were feen in the middle, even with the upper ones; but that in a little time the longer ftamens fhot above them, and the ftigmas paffed out between the filaments, and were then found above the lower and under the upper feries of anthers, and when the days were cold, this feemed to be their permanent fituation; but when the fun thone and the day was warm, or from fome unknown circumftance, the fhorter filaments likewife fhot up above the ftigmas, and thefe were found below both feries of anthers. It feemed too that the fyles fometimes began to grow after the filaments had ceafed to do fo, and fhot up beyond the longeft famens; but it was only in faded flowers that we found the ftigmas in this fituation, and not often in thefe.

We had no reafon whatever to fuppofe that there could be different fpecies in the fame pot; yet, when we find fo experienced a Botanift as Jaceuin, afferting that he had paid the greateft attention to this fubject for five fucceffive years, and had examined a thoufand individuals without finding the character vary, in the fame fpecies, in a fingle inftance, we hefitate to put the fame confidence in our few experiments, as we fhould otherwife have done, and muft leave it to farther inveftigation.

Our drawing was made at Mr. William Griffin's, SouthLambeth, in July laft.




# [ 1685 ] <br> Doryanthes excelsa. Gigantic 

## Doryanthes.



## Class and Order.

## Hexandria Monogynia.

## Generic Cbaracter.

Cor. fupera, fexpartita decidua. Filam. bafi laciniis adnatas iifque breviora. Anthere erectæ, tetragonæ, bafi cavæ extinctoriiformi affixæ. Capfitla.

## Specific Charazter and Synonyms.

DORYANTHES excelfa. Correa in Lin. Soc. Tranf. v.6.p.211. tab. 23 ct 24. Brozun Prod. p. 298. Hort. Kerv. ed. alt. 2. p. 303 .

This magnificent plant, of the liliaceous tribe, flowered laft fummer in the greenhoufe of the Right Hon, Charles Long, at Bromley-Hill, in Kent; probably for the firt time in Europe, except the fingle flower produced from a portion of the ftem, without roots, which had been cut many months before in NewHolland, and from which chiefly M. Correa eftablifhed the genus.

From this plant we flketched the following brief defcription. Radical leaves about a hundred, four feet long, fword-flhaped, fmooth, quite entire, with a very narrow cartilaginous margin, lower ones recurved, the others erect. From the centre of thefe grew the flem, or fcape, quite ftraight, ten or twelve feet high, clothed with linear-lanceolate acute leaves fheathing the ftem at their bafe and fpreading upwards. Flozvers of a deep crimfon or morone colour, collected in a roundiíh terminal bead, furrounded at the bafe by large, ovate-acuminate, green braztes; within there were other lanceolate bractes, of the fame colour with the flowers, and feparating thefe into fafcicles of two, three, or four ; two ftill narrower bractes accompanied each individual flower the length of the germen and peduncle. Lacinise of the corolla fix, tongue-fhaped, obtufe with a nipped point. Filaments fubulate, fhorter than the corolla, to which they are adnate or
foldered at the lower part: Antbers the length of the free part of the filament, erect, four-cornered, hollowed at the bafe and affixed over the point of the filament like an extinguifher, covered with a dark green pollen. Germen ftraight, obfcurely three-cornered : Style three-furrowed: Stigma three-lobed.

In the figure of the flower given in the Tranfactions of the Linnean Society, the germen is very much curved, which does not feem to be natural to the plant.

We were informed that the flem began to fhoot the preceding fummer, and reached to the height of three or four feet; that then, the winter coming on, it remained quiefcent till the following fpring, when it again refumed its growth, and the flowers began to expand by the end of July.


## [ 1686 ]

## Delphinium grandiflorum. Greatflowered Larkspur.



Class and Order.
Pofyandria Trigynia,

Generic Cbaracter.
Cal. ©. Petala 5. NeEtar. 2-4-fidum, poftice cornutum. Silique 3 feu 1.

Specific Cbaraiter and Synonyms.
DELPHINIUM grandiflorum; (tricapfulare) nectariis tetraphyllis: labellis orbiculatis fubbarbatis: unguibus appendiculatis, foliis lineari-multipartitis.
DELPHINIUM grandiforum; nectariis diphyllis: labellis integris, floribus fubfolitariis, foliis compofitis lineari-multipartitis. Sp.Pl. 749. Willd. 2. p.1228. Miller. Ic. 2. p. 167 . t. 250.f. 1.

DELPHINIUM lufitanicum glabrum, aconitifolio. Roloff Hort. Kraufan. 61. t. 3.

Descr. Root perennial. Stem erect, finooth, fomewhat angular, and dichotomoufly branched. Radical leaves multipartite: fegments narrow, channelled, pale underneath; lower cauline leaves fimilar; floral 2-3-partite, or even fimple. Fluwers alternate on peduncles varioufly lengthened, diftant, of a fine azure colour fpotted with a dull red. Petals nine in two feries: five outer ones ovate, four of them equal, the upper one larger and lengthened behind into a rugofe fpur with a bifid point : of the four inner petals (nectarium) two are very fmall, flefhy, upright, rigid, channelled : two are nearly orbicular, with an oblique claw, at the bafe of which is a fmall hooked appendix; thefe are reflected fo as to cover completely the organs of fructification,
and are ornamented near the claw with a yellow flightly bearded fpot. Stamens many: filaments flat, narrowed upwards, and reflexed : anthers ovate, attached by the back, black with white pollen. Germens three, approximate, filky. Capfules three, erect, villous.

In the common Larkfpur (Delphinium Confolida) the four petals of the nectarium are united into one and terminate behind in a fpur fheathed by that of the upper petal: in all the fpecies the fe parts vary materially in form and number. In this and the related genus Aconitum, Jussieu confiders the outer petals as calyx, and gives the name of petals to what Linneus calls neEtaria.

A double variety of this fpecies is very common in our gardens, and much admired for the fplendid blue colour of its flowers. But the plant in its natural fingle fate has been a defideratum, and has been only lately introduced from Ruffia, by Meffrs. Whitley, Brame, and Milne, of the Fulham Nurfery. We have likewife feen it at the Exotic Nurfery, King's-Road. Native of Siberia; a hardy perennial; propagated by parting its roots and by feed.

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## [ 1687 ]

# Narcissus viridiflorus. Green 

 autumnal Jonquil.

Generic Cbaracter.-Vide $N^{i s .} 9^{24}, 925$.

## Specific Character and Synonyms.

NARCISSUS viridiflorus; (uni-pluriforus; filam. adnata; anit. 3 tubo, 3 corona inclufe, s) foliis uno-pluribufve, junceis, tereti-attenuatis, fiftulofis, lævibus, fcapo fimili fubilometro tardioribus; pedicellis inæqualibus, erectis, a brevioribus ad pluries tubo longiora; corolla geniculato-nutante ; germine tubo pluries breviore ; limbo ftellato, laciniis divaricatis, æqualibus, linearibus, attenuatis, planis, tubo brevioribus; corona breviffima, cupulato-rotata, fexcrenatoincifa, fegmentis obtufis, fubemarginatis. $G$.
NARCISSUS viridiflorus; Schoujboe. Marok. in det danfke videnfkabers-jelkabs Jkrivter. 1800.157. tab. 2. Id. germanicè a Markufen. 142. tab. 2. Rotb. neue beytr. zur Botan. th. 1. 189. Id. anglicè a Kcenig Ė Sims, in Ann. Bot. 2. 26.

NARCISSUS juncifolius autumnalis flore viridi. Park. Parad. p. 94. tab. 93. fig. 6.

Descr. Bulb roundiff with brown membranous coverings; leaves 1 to feveral, a foot or more long, as well as the fcape nearly of the fame fize as in the common garden Jonquil; Spatbe lanceolately convolute, and (in fpecimens that have feyeral flowers) fhorter than the longer peduncles; corolla and crozon of an uniform afh-green colour, fegments about fix lines long and one broad; fyle even with the longeft ftamens; figmas 3; fcent like that of the common Jonquil.

Parkinson, by whom this rare and fingular coloured fpecies was cultivated amongft us nearly two centuries back, has been the firft to record it. Subfequently to him, we do notfind that it has been noticed, until enrolled under its prefent title in "The Obfervations on the Vegetables of Morocco" by Mr. Schousboe, a Danilh Botanift, who found it growing fpontaneoufly
fpontaneoully on the Coaft of Barbary and on the "eneutiog ground," between Gibraltar and St. Roque, in 1794-3. Its natural feafon of flowering, like that of Narcissus ferotinus, (a fpecies from the fame parts and of nearly fimilar œconomy) is the latter-end of autumn. In ferotinus the corolla is white, fegments elliptically lanceolate, crown orange-coloured, leaves linear, channelled, fcape ftriate, and fomewhat edged. Like viridiforus, it has difappeared in our gardens, although it feems to have been the more generally known of the two, and was ftill in them in the time of Mileer. The fpecimen from which our prefent drawing was made, had been imported from Spain, by Dr. Thompson, and flowered this fummer, for the firft time, in Mr. Griffin's collection, at South-Lambeth. G.

## NOT゙E.

Nareissus trilobus. Supra No. 945.
In the fecond edition of the Hortus Kewenfis, this plant appears under the fecific name of nutans, with a note that denies its being the trilobus of Linneus. We fhall not arraign the reafoning; on which the denial is founded; our friend, the excellent and learned writer of it, is now no more. We fhall only ftate, that we know that he had never feen the plant ; and that its identity with trilobus had been determined by comparifon with the fpecimen of that fpecies in the Linnean Herbarium. To any one who faw the plant, we are perfuaded the defcription contained in the "Species Plantarum," would alore decide the point. Although Linneus calls it trilobus; he fays in the fpecific character, that the crown is "fubtrifid," and in the appended note "obfcurely trifid and quite entire." G.

## ERRATUM.

No. 1301. verf. fol. We have.omitted in the Enumeration of the Species of. Narcissus: N. Tazzetta, No. 925; which fhould be inferted. Go

# Sesamum indicum. Indian Sesamum, or Oily-grain. 



Clafs and Order. Didynamia Angiospermia.

## Generic Cbaracter.

Cal. 5 -partitus. Cor. campanulata, 5 -fida: lobo infimo majore. Rudimentum filamenti quinti. Stigma lanceolatum. Capf. x- $^{-}$ locularis.

> Specific Cbaraiter and Synonyms.

SESAMUM indicum; caule erecto, foliis ovato-lanceolatis integris vel lobatis, pedunculifque fuboppofitis.
SESAMUM indicum; foliis ovato-lanceolatis : inferioribus trilobis; fuperioribus indivifis, caule erecto. Willd. Sp. Pl. 3. p. 359. Hort. Kew. ed. alt. 4. p. 52. Mart. Mill. Dict. Synonyma tamen plura fub orientale petenda.
VANGLO or Oil Plant. Brown Fam. p. 270. SESAMUM. Mattbiol in Diofc.lib. 2. cap. 92. Dod. Pempt. 522. Lob.Obf. 514. Ic. 2. 63 . Ger.emac. 1232 . Dalech. Hift. 483. SESAMUM indicum. Rumph. Amb.v.5.p.20. t.76.f. 1. SESAMUM foliis inferioribus trifidis dentatis, fuperioribus oblongis ferratis. Brown fam. 270.
SESAMUM alterum foliis trifidis orientale, femine obfcuro. Pluk. Alm. 344. Pbyt. t. 10g.f.4.

Sesamum indicum and orientale appear to have their fynonymy extremely confufed. Of the older figures in wood, thote which we have quoted are all copied from the original one of Matthiolus; and appear to us properly to belong to this fpecies, though generally referred to orientale, of which we know of no reprefentation but that in the Hortus Malabaricus and the one in wood in Camerarius's Hortus copied by Parkinsong and diminutively by John Bauhin。

Rumpf defcribes the leaves to be three-lobed at the bottom of the plant, ferrated in the middle, and quite entire or only finuate at the upper part; but acknowledges that, in all thefe refpects, they are fubject to vary; their form feems therefore to be of little ufe in determining the fpecies. The lower leaves of our plant were three-lobed. In the Hortus Malabaricus Sesamum orientale is drawn with leaves and peduncles alternate; in all the figures which we have quoted, as fynonyms of our plant, they are oppofite, as they have been in all the genuine fpecimens that we have feen, except a little occafional deviation, and even then the difpofition to remain oppofite has been very evident.

Both this fpecies and orientale are much cultivated in Egypt, and in the Eaft and Weft-Indies, for the fake of the oil procured from the feeds, which is of the moft extenfive ufe, and is faid to grow more mellow and agreeable with age.

Our drawing was made from a weak plant which flowered at Mr. Vere's, of Kenfington-Gore, in Auguft 1813. The fketch of the feed-veffels was added laft fummer from a much ftronger plant which grew quite erect, the produce of the fame feeds. It is a tender annual, requiring to be raifed and invigorated by renewed hot-beds, to bring it to perfection in this country.

Rumpf mentions two varieties of Sesamum indicum, one with white the other with black feeds; we are informed by Mr. Anderson, that the feeds of our plant are of a yellowifh white colour, and were fent from Jamaica under the name of Vangalosa.


# [ 1689 ] <br> Cosmea lutea. Yellow-flowered <br> Cosmea. 



Clafs and Order.
Syngenesia Polygamia Frustranea.

## Generic Cbarater.

Recept. paleaceum. Sem. tetragona. Pappus 2- feu 4-ariftatus. Cal. duplex, uterque monophyllus octopartitus. Cosmos. Cav. Ic.

## Specific Charazer.

COSMEA lutea; foliis pinnatis bipinnatifidifque : pinnis ferratis fubdecurrentibus, radio paucifloro neutro.

Our drawing of this undefribed fpecies of Cosmea was taken at the garden of the Right Hon. Lord Holland, in November 1812. His Lordfhip, we were informed, brought the feeds with him from the Botanic Garden at Madrid, under the name which we have adopted. A native of Mexico. A tender annual, requiring to be forced early in the fpring to bring it into flower foon enough to mature its feeds before the winter; for want of which, it is probably already loft to this country.


## [ 1690 ]

Thalia dealbata. Mealy Thalia.


Clafs and Order.
Monandria Monogynia.
Gynandria Monandria, Puyb.

## Generic Cbarazer.

Antbera fimplex, ovata, filamento proprio depreffo inixa. Stylus brevis, ab anthera deflexus. Stigma perforatum ringens. Bacca monofperma. Semen evitellofum.

## Specific Cbaratier and Synonyms.

THALIA dealbata; panicula albido-pulverulenta, fpathis bifloris, foliis ovatis apice revolutis. Pur/b Fl. Amer. Sept. 584.

THALIA dealbata; calyce bifloro, culmo arundinaceo pulverulento, foliis apice revolutis. Rofooe in Lin. Soc. Tranfuat. 8. p. 342. Hort. Kew. ed. alt. 1. p. 3.

THALIA? dealbata. Frafer, fingle plate.

We received a very fine fecimen of this beautiful plant in flower, feveral years ago, from our friend Thomas Furiy Forster, Efq. but we could not make it expand any of the buds, though covered wihh a bell-glafs and a bright fun; and confequently, from the fugitive nature of the bloffom, we could not at that time get a drawing made of it. This fpecimen, however, afforded us the opportunity of obferving that the antber burft, and difcharged its globular pollen, before the expanfion of the flower, and whilft it was clofely embraced by the membranous ftigma. This accounts for the circumftance, mentioned in the generic character, of the fyle being bent away from the anther; for this organ having already fhed its pollen, could
could be of no further ufe. At every joint of the peduncle is a purplifh-coloured concave bracte, which drops off before the flower is fully opened.

This elegant aquatic is generally confidered as a ftove plant, and may probably require that affiftance to bring it into bloffom; but, being a native of the fwamps of South-Carolina, we prefume it would be better to preferve it in the greenhoufe through the winter, and remove it into the bark-ftove at its feafon of flowering.

Jussieu includes Thalia in the natural order of Scitamined, which he calls Canne; but Mr. Robert Brown has feparated a fmall portion of thefe plants into a diftinct order, under the name of Cannea; retaining that of Scitaminede for the reft. The Cannece of Brown, confift of the following genera; Canna, Maranta, Thalia, Phrynium, and perhaps Myrofma; and are diftinguifhed from the true Scitamineæ, by their fimple anther, by the defect of a vitellum in the feed, and by their poffeffing no aroma at all, or at moft a very weak one.

Flowers in July and Auguft. Our figure was taken from a plant communicated by Mr. Knicht, of the Exotic Nurfery.


## [ 1691 ]

Brassia maculata. Spotted-flowered
Brassia.

Clafs and Order.
Gynandria Monandria.

## Generic Cbarazter.

Labellum explanatum, indivifum. Petala patula, diftincta. Columna aptera. Maffa pollinis 2, poltice bilobæ; meḑio affixa proceffu communi ftigmatis. Brown in Hort. Kew.

Specific Name.
BRASSIA maculata. Brown M/J. Hort. Kew. ed. alt. 5.p.215.

The genus Epidendrum, as originally conftituted, through the difcovery of a great number of additional fpecies, had become not only too cumberfome, but contained fo many plants, with the parts of fructification fo differently framed, as to require being feparated into diftinct genera; a tafk undertaken with confiderable fuccefs, feveral years ago, by Prof. Swartz, and which has been farther elucidated by the labours of Robert Brown, Efq. in the new edition of Aiton's Hortus Kewenfis,

Our prefent plant is placed by Mr. Brown between Cymbidium and Oncidium, and diftinguifhed from both principally by the columa, with which in the former genus the labellum is articulated, and which, in the latter, is winged.

It was named in commemoration of Mr. Brass, a man of confiderable botanical knowledge, who went to Africa feveral years ago, to collect plants for Sir Josepi Banks and Drs. Fothergile and Pitcairn.

Introduced to the Kew Garden, by the Right Hon. Sir Joserf Banks, Bart. K. B. where it flowered in April laft, and was brought to Sir Joseph's, by Mr. Aiton, who favoured us with permiffion to get our drawing taken from it.

# [ 16 g 2 ] <br> Lobelia variffolia. Various-leaved Lobelia. 


Class and Order.
Pentandria Monogynia. (Syngenesia Monogamia. Linn.)

## Generic Characier.

Cal. 5 -fidus. Cor. 1-petala, irregularis. Antb. cohærentes, Capf. infera 2-f. 3-locularis.

## Specific Cbarazeer.

LOBELIA variifolia; caulibus ereetiufculis, foliis linearibus integerrimis dentatifque, floribus fubfolitariis terminalibus.

The genus Lobelia, as now contituted, contains fo many fpecies, feveral of which differ fo materially in the parts of fructification, that they might with great advantage be feparated. Our prefent plant is nearly related to Lobelia lutea; fee No. 1319, where the remarkable difference that exits between that plant and the reft of the genus is pointed out. We believe that Mr. Salisbury has erected thefe two plants into a diftinct genus, but we do not know that he has publifhed any thing on the fubject. We therefore leave them for the prefent under Lobelia. It is much to be wifhed that fome Botanift, who has fufficient opportunity, would go through the whole order.

Lobelia variifolia differs from lutea, not only in foliage and habit, but in having a tripartite ftigma, which in the latter is bipartite; but whether this diftinction is conftant muft remain uncertain till an opportunity fhall offer of examining a greater number of individuals.

Native of the Cape of Good Hope. Our drawing was taken at the fuperb collection of the Comteffe De Vandes, at Bayes-Water, in July 1812.



## [ 1693 ]

## Myoporum parvifolium. Small-Leaved Myoporum.



## Class and Order.

Didynamia Angiospermia.

## Generic CharaEter.

Cal. 5 -partitus. Cor. tubo brevi ; limbo 5 -fido, fubæquali. Stigma obtufum. Drupa baccata, 2-4-locularis. Sem. 1-2, pendula.

## Specific Cbarailer and Synonyms.

MYOPORUM parvifoliun; foliis alternis clavato-linearibus ramulifque glandulofo-tuberculatis, pedunculis fubbipartitis, folium fubæquantibus.
MYOPORUM parvifolium; foliis alternis linearibus obtufiufculis apice nunc dentatis bafi attenuatis ramulifque glandulofis, pedunculis paffim bipartitis dimidio folio longioribus, caule diffufo. Brown Prod. Fl. Nov. Holl. p. 516. Hort. Kew. ed. alt. 4. p. 60.
POGONIA tuberculata, afpera vel fcabra Hortulanis.

This is a very pretty little fhrub, with fweetifh honey-fcented flowers; and flowering almoft the whole of the year, is a valuable ornament to our greenhoufes.

Being propagated by cuttings without difficulty, it is become pretty common, though no figure of it has, we believe, been hitherto publifhed. We have received fpecimens of this plant from feveral quarters, under the names of Pogonia tuberculata, afpera, and fcabra. Our drawing was taken from a plant communicated by Mefirs. Loddiges and Sons. Introduced in 1803: by Mr. Peter Good.
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# [ 1694 ] <br> Protea acuminata. Sharp-pointed Protea. 



Clafs and Order.
Tetrandria Monogynia。

## Generic Cbarater.

Petala 4, quorum 3 fuperne cohærentia. Antherce apicibus concavis corollæ immerfæ. Nux fupera, undique barbata, ftylo perfiftente coronata.

## Specific Cbaraiter.

PROTEA acuminata; foliis lineari-lanceolatis acutis planis fupra venulofis, bracteis obtufis apice pubefcente-concavo, ramis flexuolis coloratis.

This fpecies of Protea, which we do not find defcribed any where, has confiderable affinity with canaliculata; but differs in having broader flat leaves, not hollowed on the upper furface, where they are flightly veined; bractes more obtufe, hollowed at the extremity, and bordered with a black pubefcence. Stem upright: branches weak, twiggy, of a bright red colour on the fide expofed to the light, and more thinly clothed with leaves than in canaliculata. Flowers always terminal.

Our drawing was taken at Meffis. Lee and Kennedy's, in March 1812, where it is known by the name we have adopted.



# Commelina tuberosa. Tuberous 

 Commelina.

Generic Cbaraczer.-Vide No. 1431.

## Specific Cbaracter and Synonyms.

COMMELINA tuberofa; (flores involucrati;) radice tuberofo fafciculata; caule ramofo, futurâ villofâ ftriato; foliis oblongo v. ovato-lanceolatis, glabris, margine fubciliatofcabris, vagina petiolari tomentofo-ciliatis, junioribus fupremis involucroque fubtus pubefcentibus; racemis alternis, inclufis, paucifioris; pedunculis pubefcentibus; rachide pedicellifque glabris; corollæ laciniis æqualibus ovato-rotundis. $G$.
COMMELINA tuberofa. Linn. Sp. Pl. ed. 2. 1. 61. Willich. Iliufir. n. 18. Mill. Dict. ed 8. n. 4. Hort. Kew. 1. 76. ed. 2. 1. 124. Gertn. Sem. et Fr. 1. 49. t. 15. Schmidel. Ic. 192. tab. 49. Bot. Rep, tab. 399. Lil. à Redoutè. tab. 108. Willd. Sp. Pl. 1. 251. Enum. 69. Vabl Enum. 2. 171.
COMMELINA ceelefis. Willd. Enum. 6 g.
COMMELINA radice anacampferotis. Dillen. Hort. Elth: 94. lab. 70. fig. 90.

Willdenow, in the laft of his works above quoted, records the prefent plant under the name of calefis, and has befides a fpecies in the fame as tuberofa. But, as our plant is undoubtedly his ceelefits, and, as far as we can make out, the tuberofa of others; and fince he has given no mark fufficient to diflinguifh them by, we fufpect that this was the only one feen by him; and that being unable to fatisfy himfelf of its identity with tuberofa, he has (as we fo often fee is done, to the injury of this fcience) recorded two fpecies inftead of one. We doubt whether the C. fafciculata of the Flora Peruviana is really diftinct from this: it has the fame root. Our drawing was made from a feedling fpecimen that flowered in its firft year at Mr. Vere's. The feed had been received from a botanic garden in the North of Germany. A native of Mexico; requires to be kept in the ftove. Perennial. Cultivated in 1732 by Dr. Sherrard at Eltham. G。

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## [ 1696 ]

Eugenia Jambos. Narrow-leaved
Eugenia.

Clafs and Order.
Icosandria Monogynia.
Generic Cbarater.
Cal. 4-partitus, fuperus. Petala 4. Bacca 1-locularis, 1fperma.

Specific Cbarazer and Synonyms.
EUGENIA 7 ambos; foliis integerrimis lanceolatis, pedunculis fubquadrifloris terminalibus. Willd. Sp. Pl. 2. p. 959. Hort. Kerw. ed. alt. 3. p. 186.
EUGENIA fambos; foliis integerrimis, pedunculis ramofis terminalibus. Sp. Pl. 672 . Willd. 2. p. 959. Hort. Kerv. ed. alt. 3. p.186. Pl. Zeyl. 188. Lour. Fl. Cocbin. 807. Mart. Mill. Dizt. n. 2.
TAMBOSA fylveftris alba. Rumpf Amb. 1. p. 127.t. 39.
MALACCA-SCHAMBU. Hort. Malab. 1. p. 27. t. 17.
PRUNUS malabarica fructu umbilicato pyriformi fambos diça minor. Raj. Hij. 1478. n. 1.

In reading over the defcriptions of the authors above quoted, there appears to be confiderable contradiction exifting in their accounts, which may be owing perhaps occafionally to the confounding this fpecies with E. malaccenfis; or there may be different varieties or fpecies. Rumpf defcribes our plant as one of the wild forts of Jambosa, diftinguifhing it from the domeftic, or Eugenia malacconfis of Linneus by its fmaller fize, crooked growth of the ftem, and auftere, round-compreffed fruit, which he fays is feldom eaten in Amboyna, being lefs juicy, more infipid, and leaving a bitterifh tafte on the paiate. From the crooked growth, the wood is chiefly ufed for the ribs of fhips.

In the Hortus Malabaricus, the flowers are defcribed as at firlt white and fcentlefs, afterwards turning yellow and acquiring an acid or vinous fmell; and the fruit is faid to be fweet and grateful, with a very pleafant rofe-like fcent. By Loureiro the ftamens are defcribed to be red, the fruit fweetifh acid, without finell.

Communicated by - Barrett, Efq. of Ewel, at the latter-end of June. Flowers from February to July. Native of the Eaft-Indies. Requires to be kept conftantly in the bark flove.



## [ 1697 ]

## Pteronia pauciflora. Few-flowered Pteronia.


Class and Order.
Syngenesia Polygamia Æequalis.

## Generic Cbarader.

Recept. paleaceum : paleis multipartitis. Pappus fubplumofus. Cal. imbricatus, fquanis carinatis.

PTERONIA paucifora; fuffrutex tomentofo-pilofus, ramis unifloris, foliis alternis lanceolatis, fquamis calycinis glabris obtufis, capitulis cylindricis.

This little fhrub, native of the Cape of Good-Hope, was communicated by the late Mr. Napier, from the Vaukhall Nurfery, now Chandler and Buckingham's. Having neglected at the time to examine it particularly, and not having met with it fince, it is not without fome hefitation that we give it as a fpecies of Pteronia.


## [ 1698 ]

## Oxalis rosacea. Rose-coloured Wood-Sorrel.


Class and Orler.
Decandria Pentagynia.

## Generic Cbarazter.

Cal. 5 -phyllus. Petala unguibus connexa. Stam. inæqualia: 5 breviora exteriora, bafi connata. Capf. angulis dehifcens, $5^{-}$ gona.

## Specific Charater and Synoryms.

OXALIS rofacea; caule fimplici foliofo decumbente, foliis ternatis fubfeffilibus, pedunculis unifloris longiffimis, petalis fubtus difcoloribus.
OXALIS rofacea; caule foliofo fimplici decumbente, pedunculo unifloro foliis multoties longiore, foliis ternatis fubfeffilibus oblongo-cuneiformibus, corollis campanulatis acutiufculis, ftylis ftaminibus interioribus brevioribus. Willd. Sp. Pl. 2. p. 797. Hort. Kew. cd. alt. 3. p. 128.
OXALIS rofacea; corollis campanulatis, ftylis intermediis, filamentis gibbofe denticulatis. Facq. Oxalis, n. 30. p. 51. t. 17 .

This beautiful fpecies of Oxalis was communicated from the Bithop of London's garden in Fulham, in October 1812.

Native of the Cape of Good-Hope. Introduced by Mr. Masson. Flowers from September to November.



## Crotalaria pulchella. Largeflowered Crotalaria.



Clafs and Order. Diadelphia Decandria.

## Generic Cbaracter.

Legumen turgidum inflatum, pedicellatum, Filam. connata, cum fiffura dorfali.

## Specific Cbarazter and Synonym.

CROTALARIA pulcbella; frutefcens, ramulis teretibus fericeis, foliis ternatis: foliolis lineari lanceolatis acutis petiolis longioribus fubtus fubpilofis, Bot. Repof. 417. Hort. Kew. ed. alt. 4. p. 274.

The Crotalaria pulchella is a handfome greenhoufe fhrub, with long, erect, flender, rounded branches, bearing large bunches of yellow flowers at their extremities. The whole plant is covered with a filky, clofe-adpreffed pubefcence.

Our drawing was made feveral years ago, at Mr. Colville's Nurfery, in the King's-Road, in the month of May.

Native of the Cape of Good-Hope.


# [ 1700 ] <br> Yucca aloifolia. Tall-stemmed <br> Adam's Needle. 


Generic Charazter.-Vide No. goo.
Specific Cbaracier and Synonyms.
YUCCA aloifolia; caudice arborefcente, frugifero foliis aliquoties altiore; foliis numerofiffimis, lapfu inferiorum excelfe terminalibus, lanceolato-ligulatis, fricitfimis, fubtiliter denticulatis, juxta fupra bafin anguftatis, interioribus erectius conniventibus; panicula racemofa, numerofa, fubconferta, pyramidata, divaricata, ramulis laxis; corolla nutante. $G$.
YUCCA aloifolia. Linn. Spec. Pl. ed. 2. 1. 457. Mill. Ditt. ed. 8. n. 2. Hort. Kerv. 1. 465 . ed. 2. 2. 294. Decand. Pl. Gr. tab. 20. Desfont. Truaité des Arbres. 1. 18. Lil. à Redouté. tab. 401, 402. Mich. Bor. Amer. 1. 196. Pur/h Amer. Sept. 1. 228.

YUCCA gloriofa. Bot. Repofit. 473; (nec aliorum.)
Y. arborefcens foliis rigidioribus, reCtis, ferratis. Dillen. Hort. Elth. 435. tab. 326. fig. 416 .
ALOE yucce foliis caulecicens. Pluk. Alm. 19. t. 25 6. f. 4 .
A. americana, yucce foliis arborefcens. Comm. Prelud. 64. tab. 14 .

The mof lofty of its genus yet known to us; the ftem rifing fometimes to near eighteen feet high even in this country. The leaves are narrower and fliffer than in gloriofa (fee above, No. 1260), and their edges finely ferrate and not entire as in that; the panicle much clofer flowered, from two to three feet high; Alowers fuffufed with purple on the outfide. It does not bloom fo freely as the two fpecies already given in this work; and when it does the head decays, others fprouting out below. Ufially kept in the greenhoufe or confervatory, where we have feen vigorous plants, ten feet high and as thick as a man's arm, in garden-pots not more than a foot deep. It is faid to thrive better in the open ground,
ground, and to flower there much ftronger, when the feafons are favourable. We had not the opportunity of feeing the prefent plant, which flowered laft October in the garden of Mrs. Walker, at Stockwell. Native of both North and South America. Cultivated in 1696, in the King's Garden, at Hampton-Court. G.

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No. 744, 1. 13, a pede pag. pro "preter babitum non bulbofum aliundeque diverfum," lege "babitu praterea non bulbofo aliundeque diverfo."


# [ 1701 ] <br> Sesuvium Portulacastrum ( $\beta$ )revolutum. Purslanelleaved Sesuvium. 

## 

Clafs and Order.
Icosandrita Trigynia.

## Generic Cbaraller.

Cal. 5-partitus, coloratus. Petala o. Capf.ovata, 3-5-locularis, circumfciffa, polyfperma.

Specific Cbarazer and Synonynns.
SESUVIUM Portulacafifum; floribus fubfefflibus. SESUVIUM Portulacafrum. Hort. Kew.ed. alt. 3. p.203. Willd. Sp. Pl. 2. p. 100 g. Decand. Pl. Graffes 9. Lamarck Illuffr. t. 434.f. 2. Swartz Obf. p. 204. Facq. Amer. 155 . t. 95. SESUVIUM Jeffile et revolutum. Perfoon Syn. 2. p. 39. n. 2. et 3. AIZOON canarienfe. Bot. Repof. 201.
PORTULACA aizoides maritima procumbens, flore purpureo.
Sloane Hift. 1. p. 204.
AIZOON repens, foliis oblongis turgidis, floribus feffilibus fingularibus ad alas. Browen Fam. p. 241.
CRITHMUS indicus. Rumpf Amb. 6. p. 165.t.72.f. 1.? (3.) revolutum ; foliis ovato-oblongis margine revolutis. Perfoon Syn. 2. p. 39 .

SESUVIUM revolutifolium. Ortega Decad. p. 19.

Persoon makes three fpecies of Sesuvium, viz. pedunculatum, feffle, and revolutum; and quotes the figures of Decandolle's Plantes Graffes, at that time unpublifhed, for all of them. But as this Botanift has as yet publifhed only one fpecies, and that under the name of Portulacafrum, we cannot abfolutely determine on the propriety of Persoon's divifion. Our plant, however, differs fo little from Decandolle's figure, that we can confider
it only as a variety. At the fame time we are inclined to think that thofe plants which have flowers on long peduncles, reflected as the fruit ripens, may form a fpecies diftinct from thofe with nearly feffile flowers, as in the two figures in Lamarck's Illuftrations. Judging, however, from the figures given by different authors, none of their plants feem to have had entirely feffile flowers; and in fome, the length of this part is fuch as to make it doubtful to which fpecies they ought to be referred : perhaps, therefore, they may be all merely varieties of the fame.

The fpecies is faid to occur in maritime places both in the Eaft and Weft-Indies. Our variety is a native of Cuba.

Communicated by Mr. Knight, of the Exotic Nurfery, King's-Road, flowering in July.


## [ 1702 ]

## Hibiscus Manihot. Palmated-leaved Hibiscus.


Clafs and Order.
Monadelphia Polyandria.

## Generic Cbaracter.

Cal. duplex : exterior polyphyllus. Stigmata 5. Capf. 5locularis polyfperma.

## Specific Cbarazter and Synonyms.

HIBISCUS Manibot; foliis palmato-digitatis feptempartitis, caule petiolifque inermibus. Sp.Pl. 980. Willd. 3. p. $825^{\circ}$ Hort. Kerw. ed.alt. 4. p.229. Mart. Mill. Dič. n. 29. Sabbat. Hort. 1. t. 56. Kniph. Cent. 9. n. 47. Cav. Dif. 3. p. 172. t. 63.f. 2. Thunb. Jap. 272.

KETMIA folio manihot ferrato, flore amplo fulphureo. Dill. Elth. 189.t. ${ }^{156 . f .189 .}$
ALCEA finica manihot ftellato folio, capfula longa pilofa pyramidata quinquefariam divifa. Pluk. Amalth. 7.t.355.f.2.

This beautiful flower is a native of China and Japan, and has at times been cultivated in this country fince the year 1712 , at which period it was fent to the Royal Society as one of the fifty fpecimens annually delivered from the Apothecaries Garden at Chelfea.

The genus Hibiscus contains many plants fo differently organized, that they might be advantageoully divided into feveral genera. Our friend Mr. Brown has feparated this fpecies with fome related ones, having an internal deciduous calyx burting on one fide, and a long pyramidal capfule, and formed them into a diftinct genus, under the name of Bamia; but has not, as yet, publifhed on the fubject.

Communicated by Mr. Sweet, of the Stockwell Nurfery. Flowers in Auguft and September. Is treated as a flove fhrub; but is probably more hardy than is fuppofed, as has been found to be the cale with moft Japan plants.

## [ 1703 ]

Helonias bracteata. Leafy-flowered Helonias.

## 

Clafs and Order. Hexandria Trigynia.

Generic Cbarader.-Vide No. 985.

Specific Cbaralter.
HELONIAS bracteata; (hermaphrodita) rhizomate horizontali, foliis lanceolatis erectis, bracteis flore longioribus, petalorum glandulis diftinctis.

Helonias bracteata has a near affinity to glaberrima (No.1680). From which it differs in having yellowifh green, not glaucous leaves; flowers larger, feffile, in a denfe fpike, with large ovateacuminate bractes, longer than the corolla, the glands of the petals, which in the former fpecies are confluent, in this are quite diftinct ; the root in the former is bulbous, in this flefhy, running horizontally along the furface of the ground, as in Iris.

Native of North-America. Introduced by Meffrs. Fraser, of Sloane-Square, who communicated the plant from which our drawing was made. Flowers in September and October. Seems to be a hardy perennial, and may no doubt be propagated by cuttings of its flefhy roots.



## [ 1704 ]

## Lachenalia Quadricolor ( $(\gamma$ ) lutea. Spotted-leaved Yellow Lachenalia.

## 

Clafs and Order.
Hexandria Monogynia.
Generic Cbaracter.-Vide No. 993.

## Specific Cbarazter and Synonyms.

LACHENALIA quadricolor; foliis binis lineari-lanceolatis canaliculatis furfum explanatis, floribus diftantibus pedunculatis pendulis : petalis exterioribus fere dimidio brevioribus. Synonynaa petenda, No. 588 et 1097.
(a.) foliis omni macula expertibus. Supra No. 588.
(ß.) foliis maculatis, floribus quadricoloratis. Supra No. 1097.
(r.) foliis maculatis, floribus concoloribus luteis.

LACHENALIA luteola. Facq. Ic. rar. 2. t. 395. quoad figuram fine folis.

Our Lachenalia quadricolor, though fhewn by Mr. Ker, at No. 1097 of the Magazine, to be in reality the original tricolor of the firft edition of Aiton's Hortus Kewenfis, is ftill referred to in the laft edition of that work as a variety of pendula.

We remarked on the publication of variety $(\alpha)$ of this fpecies, that it came nearer to tricolor than to pendula, and to the former, perhaps, all our three varieties might be properly referred. Having, however, hitherto retained Jaceurn's name of quadricolor, we think it beft to continue it, efpecially as it is doubtful whether our Lachenalia tricolor (No. 82), and its varicty (No. 1020) be not really a diftinct fpecies from our varieties of quadricolor.

Jacquin appears to have figured our plant as a mere variety of his luteola; but as he has not added the leaves, we cannot fay how far they may have agreed in this refpect. He obferves, that out of a hundred fpecimens, only two had fpotted leaves; if the figure in queftion belonged to one of thefe, there would be no doubt.

Our drawing was made at Mr. Griffin's, South-Lambeths in Auguft laft.

Native of the Cape of Good-Hope. Propagated by its bulbs. Requires the fame treatment as for other Cape bulbs.

## [ 1705 ]

## Hemanthus tigrinus. Tiger-spotted Blood-flower.


Class and Order.
Hexandria Monogynia.

Generic Cbarażer.-Vide No. 1075.

Specific Cbaracter and Synonyms.
HEMANTHUS tigrinus; foliis linguiformibus planis glabris margine ciliatis depreffis, umbella coarchata, limbo ftaminibufque erectis. Willd. Sp. Pl. 2. p. 25. Hort. Kew. ed. alt. 2. p. 207. Perfoon Syn. 1. p. 348. n. 5 .
HEMANTHUS tigrinus; foliis oblongis ciliatis fubtus maculatis, fcapo maculato umbella coarctata. Facq. Hort. Schoenb. 1. p. 2g.t. 5 6.

The leaves of the Hemanthus tigrinus appear after the flowering is paft, are two, broad-tongue-fhaped, flefhy, fmooth, ciliated at the margin, lying nearly flat on the ground ; they are marked, efpecially towards the bafe, on the under fide, with irregular dark iron-coloured fpots, from whence the fpecific name. The tube of the corolla is fhort, fomewhat dilated at the top and white : the limb erect, pale red.

The fpecimen figured by Jacquin was not nearly fo large as the one from which our drawing was taken, which flowered in Auguft laft, in the moft extenfive collection of Cape bulbs of Mr. Griffin, in South-Lambeth.



# [ 1706 ] <br> Donia squarrosa. Snake-headed <br> Donia. 



Ciass and Order.
Syngenesta Polygamia Superflua,

## Generic Charater.

Recept. nudum. Pappus fetaceus caducus. Calyw imbricatus, hemifphericus. Brown.

Specific Cbarater and Synonyms.
DONIA Squarrofa; herbacea; foliis oblongis amplexicaulibus ferratis, calycinis fquamis apice filiformibus revolutofquarrofis. Purfh Fl. Ann. Sept. 559.

This genus was named by Mr. Brown, in honour of the late Mr. George Don, a celebrated Scottifh Botaniit, whole difcoveries have made fo many additions to the Britifh Flora. It was taken up from the Aster glutinofius of Prof. Cavanilles, a native of Mexico, with a fhrubby ftem, and fome other unpublifhed fpecies.

Donia fquarrofa is a herbaceous perennial, native of open meadows on the banks of the Miffouri; and, as we learn from Mr. Lambert's Herbarium, was firft difcovered in the camp, near the old Maha village, by Mr. Lewis, on the 17 th of Auguft 1804 . We believe it was firt introduced to this country by Mr. Nuttal.

Mr. Pursh fays, that the whole plant is vifcous, and has a ftrong refinous or balfamic fcent; to us thefe qualities feemed to be confined chiefly, if not altogether, to the calyx and corolla, and more efpecially to the latter.

Our drawing was taken at Meffrs. Fraser's American Nurfery, Sloane-Square. We were favoured with other fpecimens by Mr. Anderson, from the garden of James Vere, Efq. and allo from Boyton, the feat of A. B. Lambert, Efq. Flowers from Auguft to November. Propagated by feeds or parting its roots.


## [ 1707 ]

Petalostrmum violaceum. Purpleflowered Petalostemon.


Clafs and Order. Diadelphia Pentandria。

## Generic Charater.

Cor. nulla, ejus loco filamenta 5 , fterilia, petaliformia, fertilibus alternantia. Iegumen calyce tectum, i-fpermum.

## Specific Cbarukter and Synonyms.

PETALOSTEMUM violaceun; capitulis ovato-oblongis, calycibus pilofs, bracteis deciduis, foliis lubbijugis linearibus.
PETALOSTEMUM violacsum; fica cylindrica pedunculata, bracteis calycem fubæquantibus, bracleolis fpathulatis deciduis, calycibus fericeis, foliis bijugis linearibus. Pur/b Fi. Amer. Sept. p. 461.
PETALOSTEMUM violaceum; pubens; foliolis linearibus: bracteis brevioribus; bracteolis fpathulatis deciduis: petalis rofaceo-violaceis. Micboux Fl. Bor. Amer. 2. p. 50. t. 37. f. 2.

DALEA violacea. Willd. Sp. Pl. 3. p. 1337.

The purple Petalostemum, as an ornamental llower, is by no means defpicable, but is more remarkable for its fingular ftructure : being a diadelphous plant without any proper corolla, having nine united and one detached filament, as is moft ufaal in the clafs. But the alternate filaments are barren, coloured, and expanded at top into a petal-like appendix. The folitary filament is longer than the reft, channelled on the upper fide, coloured, and expanded into a boat-fhaped extremity; which as it occupies the place of, fo it feems a fort of attempt towards, the formation of a vexillum. The fertile filaments are longer than the others and farther detached than is ulual: the anthers are nearly globular, and abound with a bright orange-coloured poller.
pollen. The unripe germen certainly contains two ovula, but one feed only probably comes to perfection. The calyx is inflated, white, five-toothed : teeth hairy.

That this plant has no real corolla was remarked by Thomas Nuttal, Efq: who firft introduced it to this country. We received living fpecimens from this gentleman in the autumn of 18i3, which flowered in the open ground, near Liverpool, but from the abfence of our draughtfman could not get it drawn at that time. We are informed by Mr. Nuttal, that this plant forms one of the principal decorations of the vaft plains of the Illinois, Temaffée, and Louifiana, but its native country appears to be particularly in the upper part of this laft fate, to the bafe of the rocky mountains or Northern Cordillera, from whence it has been propagated ealtward by the great rivers that meander through thefe regions.

Collected by Mr. Nuttal, in the vicinity of St. Louis, lat. $38^{\circ} 43^{\prime \prime}$.

Our drawing was taken at Meffrs. Fraseg's American Nurfery, Sloane-Square, laft October. It is a tolerably hardy perennial, but requires to be protected from froft.


# Bauhinia porrecta. Smooth-Leaved Mountain Ebony. 



Clafs and Order.
Decandria Monogynia.

## Generic Cbaracter.

Cal. 5 -fidus decidues. Petala patula, oblonga unguiculata: fuperiore magis diftante; omnia calyci inferta. Legumen.

> Specijc Cbaratter and Synonyms.

BAUHINIA porrecta; floribus monandris, pedunculis laxe racemofis, petalis lanceolatis: unguibus filiformibas, foliis cordatis: lobis trinerviis.
BAUHINIA porrecta; foliis cordatis: lobis porrectis acutis trinerviis, petalis lanceolatis. Hort. Kew. ed. 1. 2. p. 48. ed. alt. 3. p. 23. Willd. Sp. Pl. 2. p. 510. Swartz Prod. 66. cui flores fubdecandri.

BAUHINIA porrecta; floribus diadelphis fubdecandris, foliis cordatis, lobis femiovatis acutis fubquadrinerviis, petalis lanceolatis. Facq. Hort. Scboenb. 1. p.52. t. 100.
BAUHINIA foliis bilobis fpicis laxis terminalibus. Brown Fam. 286.
BAUHINIA non aculeata, folio ampliori et bicorni. Plum. Gen. 23. Ic. 44.f. 2.?
SENN 尼 fpurix aut Afpalatho affinis arbor filiquofa, foliis binis. Sloane Fam. 150. Hit. 1. p. 51.

The genus Bauhinia was named by Plumier, in honour of John and Caspar Bauhin, the moft celebrated Botanifts of their day; and Linnews has ingenioufly connected the plant with the name, by comparing the two lobed leaves, or as it were two leaves iffuing from the fame bafe, with the above-named
above-named pair of noble brothers. Such allufions ferve at leaft to rivet the name in the memory.

This fpecies and divaricata are both monandrous, or have in general only one fertile ftamen, which is diftinct, and much ftouter and longer than the other nine connected filaments without anthers, or with only imperfect ones. It happens, however, that now and then one or another filament grows longer than the reft, and has a fmall polliniferous anther.

Native of the Weft-Indies. The leaves appear to vary confiderably. One Specimen in the Bankfian Herbarium, from the Ifland of St. Kitts, has leaves with obtufe lobes exacly refembling thofe of our plant, others are harper and more lengthened at the point.

Communicated by our friend John Walker, Efq. of Arno's-Grove, in October laft.

Varies, according to Sir Hans Sloane, with red and with variegated flowers. The wood is very hard and veined with black, bence the name of Ebony.


# [ 1709 ] <br> Liatris scariosa. Scarious-cupped Liatris. 


Clafs and Order.

## Syngenesia Polygamia Æequlis.

## Generic Cbarazer.

Recept. nudum. Cal. oblongus, imbricatus. Pappus plumofus.
Specific Cbaratier and Synoayms.
LIATRIS fcariofa; foliis lanceolatis integerrimis glabris, calycibus globofis inferne fquarrofis diftinctis: fquamis rotundatis membranaceo-marginatis.
LIATRIS fcariofa; caule fimplici fubpubefcente, foliis lanceolatis utrinque attenuatis glabris margine fcabris, calycibus racemofis alternis diftantibus inferne fquarrofis; fquamis fathulatis margine membranacco-coloratis. Pur/b Fl. Amer. Sept. 509.
LIATRIS fcariofa. Willd. Sp. Pl. 3. p. 1635. Hort. Kew. ed. alt. 4. p. 503.
,IIATRIS fquarrulofa; Micbaux Fl. Bor. Amer. 2. p. 92.
SERRATULA fcariofa; foliis lanceolatis integerrimis calycibus §quarrofis pedunculatis obtufis. Linn. Sp. Pl. 1147.
EUPATORIO affinis americana bulbofa, floribus fcariofis calyculis contectis. Pluk. Alm. 142.t.177.f.4.

Descr. Stem four-feet high, upright, fin.ple, pubefcent. Leaves narrow-lanceolate, quite entire, dotted with pellucid glands, fmooth, except at the edge, which is roughened by a row of ftiff hairs hardly vifible to the naked cye. Brackes like the leaves but narrowed from the bafe to the point. Flozvers diftinct, but near together, in a long raceme on thort peduncles, fometimes without and fometimes with one or two fquamous bractes. Calyx, before the flower appears globular, afterwards oval: the lower fales reflexed, upper ones erect, rounded at
the point with a nembranaceous border. Receptacle naked; but in the circumference appears as if chaffy from abortive florets. Tube of corolla inflated in the middle : limb 5 -cleft, erect, acute. Antbers dark purple. Germen hairy, crowned with a toothed pappus: Jyle oblique: Jigmas clubfhaped, far exceeding the corolla in length.

The fpecimen from which the above defeription was taken was fent us from his garden at Boyton, by our friend Aylmer Lourre Lambert, Efq. The fpike of flowers was a foot and a half long, the upper ones bloffoming firft and gradually defcending, but nearly the whole were expanded before any began to fade. Upon the whole it is among the handfomeft of the fyngenefious plants. It is particularly adapted to the flower pot, as it will live and continue to blow in water for weeks together.

Our drawing was taken at Mr. Knicht's Exotic Nurfery, in the King's-Road, Little Chelfea, in October $18 \mathrm{~B}_{3}$.

Native of the mountain paftures in Virginia and Carolina. A hardy perennial. Propagated by parting its roots or by feed.


## [ 1710 ]

## Sarracenia variolaris. Hook-leaved Side-Saddle-flower.



Clafs and Order.
Polyandria Monogynia.

## Generic Charatter.

Cal. duplex, 3 -phyllus et 5 -phyllus. Capf. 5 -locularis, Stylus figmate clypeatus.

## Specific Cbarazler and Synonyms.

SARRACENIA variolaris; foliis tubulatis longitudine pedunculi: valva fubrotunda inflexa: tubi dorfo fuperne maculato.
SARRACENIA variolaris; foliis elongatis, tubo fuperne dorfo maculato, in appendicem fornicatim incurvatum brevem definente, ala ventrali lineari-lanceolata. Michaux Flor. Bor. Amer. 1. p. 310. Purl/ Fl. Amer. Sept. 367. Perfoon Synopf. 2. p. 6 ع.
SARRACENIA adunca; foliis tubulatis longitudine pedunculi: valva fubrotunda inflexa. Smith Exot. Bot. 1.p. 103. t.53. Hort. Kew. ed. alt. p. 291.
SARRACENIA minor. Walter Fl. Carol. 153. Willd. Sp. Pl. 11 50. 2. p. 6. Perfoon Syn. s. p. 6z.

The Sarracenia variolaris is at once diftinguifhed from flava, by its fmaller fize; fpreading, not dependent petals; and the diaphanous fpotting at the upper part of the back of the tube of the leaf.

Our friend, Sir James E. Smith, feemingly not aware that this fpecies had been previoufly defcribed by Michaux, in his Exotic Botany, gave it the name of adunca: whence it has been inferted
inferted in the Hortus Kewenfis. Willbenow contiaues Walter's name of minor; and Persoon has given both minor and variolaris as two fpecies.

Native of Carolina. Flowers at different feafons. Our drawing was taken laR March, at Meffrs. Lee and Kennedy's, by whom it was firft introduced in $\mathbf{1 8 0 3}$. Mr. Pursh fays, the Sarracenias bear cultivation, in pots filled half way with Bog-Mofs, extremely well. This fpecies feems to flower beft in an airy part of the flove.


## [ 1711 ]

# Matthiola odoratissima. Persian Sтоск. 



Clafs and Order.
Tetradynamia Siliguosa.

## Generic Cbaracter.

Siliqua (teres v. compreffa) coronata figmate conniventi bilobo, lobis vel dorfo incraffatis tuncque cotyledonibus incumbentibus; vel bafi cufpide ftipatis. Calyx claufus. Filamenta longiora dilatata. Brown.

## Specific CbaraEter and Synonyms.

MATTHIOLA odoratiflma; (ftigmate fubfimplici) foliis to mentofis lyrato-finuatis, filiquis compreffis, tomentofis lævibus. Hort. Kerw. ed. alt. 4. p. 120.
CHEIRANTHUS odoratifimus. Willd. Sp.Pl.3.p.524. Eijufd. Enum. 682. Pallas Ind. Taur. in Nov. Ait. Petrop. 10. po 314.

CHEIRANTHUS odoratifimus; foliis runcinatis tomentofis, filiquis linearibus compreffis, ftigmate bilobo terminatis, caule fuffruticofo. Marfcball ab Bieb. Fl. Taur-Caucaf. p. 122.

Mr. Brown, in the new edition of the Hortus Kewenfis, has divided the old genus Cheiranthus into feveral genera, devoting a part thereof to the commemoration of the celebrated commentator on Diofcorides, Peterind. Matthiolus; the former genus, affigned to him by Plumier, having been proved to be the fame with Guettarda. This genus contains, befides the prefent plant, Cheiranthus incana; feneflralis; finuata; tricu/pidata; parviflora; \&c.

The leaves of the Persian Stock, are extremely variable in their figure, being fometimes quite entire, fometimes only flightly
flightly toothed, but more frequently finuately pinnatifid, and always much the broadest towards the point. The whole plant is tomentofe.

This fpecies has great affinity with Matthiola (Cheiranthus) trijlis, $7^{29}$ of this work; and, like it, does better treated as a greenhoufe plant, than expofed to our winters in the open ground. The flowers are much larger and of a brighter colour than thofe of triftis; and have the fame fragrant fmell after fun-fet.

Our drawing was taken from a plant communicated by Mr . Salisbury, from the Botanic Garden, in Sloane-Street, in May laft. We were favoured with fine fpecimens the year before, by Mr. Whitley, from the Fulham Nurfery.

Introduced to the Kew Garden, by the Right Hon. Sir Joseph Banks, Bart. K. B. in 1797.

## [ 1712 ]

Oxalis variabilis, var. rubra. Redflowered variable Wood-Sorrel.


> Clafs and Order.

Decandria Pentagynia。

## Generic Cbaracter.

Cal. 5-phyllus. Petala 5, unguibus connexa. Stam. inæqualia; 5 breviora exteriora bafi connata. Capf. angulis dehifcens, 5-gona.

Specific Cbaragler and Synonyms.
OXALIS variabilis ; acaulis, fcapo unifloro foliis longiore flaccido, foliis ternatis fubrotundis: foliolo intermedio cuneiformi, ftylis ftaminibus exterioribus brevioribus. Willd. Sp. Pl. 2. p. 777. Hort. Kerw. ed. alt. 3. p. 120.
OXALIS variabilis. Facq. Oxal. 8g. t. 52 et 53.
(a.) albiflora. Vide fupra No. 1683.
(阝.) rubra. Scapis petiolo longioribus, limbo corollde rubro.
OXALIS variabilis. $\beta$. flore rubro. Facq. Oxal. 89. t. 53.
OXALIS purpurea. Thunb. Dif. No. 8. p. 12. v. a. Facq. Oxal. n. 70. t. 56 ? Sp. Pl. 621.
OXALIS fpeciofa. Facq. Oxal. n. 74.t. 60 ?
OXALIS Jugillata. Facq. Oxal.n. 75.t. 61 ?
OXYI affinis planta buibofa africana, flore purpureo magno. Breyn. Cent. p. 102. t. 46.
OXYS bulbofa africana rotundifolia caulibus et floribus purpureis amplis. Commel. Hort. 1. p. 41. t. 21.

It appears to us that Jaceuin, in his elaborate and excellent Monograph on this genus, has multiplied the fpecies beyond what nature warrants. We fufpect, that all that we bave quoted in the prefent article are only varieties. And
the fynonyms quoted from Breyne and Commelin undoubtedly belong to our fpecies.

Native of the Cape of Good-Hope. Flowers from September to November. Communicated by Meffrs. Loddiges and Sons.

## $E R R A T U M$.

No. 1683, 1. 14, pro $(\gamma)$ lege ( $\alpha)_{0}$

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## [ 1713 ]

Protea formosa. Crown-flowered Protea.


Clafs and Order.
Tetrandria Monogynia.

Generic Charailer.
Petala 4, quorum 3 fuperne cohærentia. Antbere apicibus concavis corolle immerfa. Nux fupera undique barbata, ftylo perfiftente coronata. Brown.

## Specific Cbarazer and Symonyms.

PROTEA formofa; foliis oblongo-ellipticis marginatis, involucri bracteis fpathulatis externe fericeis, corollis tomentofis, fylo apice curvato, fligmate apice incraffato.
PROTEA formofa; foliis angufto-oblongis venofis obliquis: bafi fimplici; marginibus ramifque tomentofis, involucri bracteis ciliatis : intimis lingulatis imberbibus, corollis ariftifque tomentofis, fylo glabro apice curvato, ftigmate apice incraffato. Brozen in Linu. Soc. Tranfair. v. 10. p. 79. Hort. Kew. ed. alt. 1. p. 189.
PROTEA coronata. Bot. Repof. 469.
ERODENDRUM formofum; foliis ellipticis margine craffo, tenellis tomentofis : bracteis involucri fimbriatis, inferioribus inter fe liberis: corolla extus tomentofa, apice valde attenuata: antheris peranguftis: ftigmatis apice craffo. Parad. Lond. 76.

Our drawing of this beautiful Protea was taken at Meffrs. Lee and Kennedy's, Hammerfmith, where there are varieties with red, white, and bluifh flowers. Flowers in May. Native of the Cape of Good-Hope, growing in the mountains of Hot-tentots-Holland, from whence it was introduced in 1789 , by Mr. Francis Masson.
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## [ 1714 ]

## Polygala mixta. Heath-leaved Milk-wort.



Clafs and Order.
Diadelphia Octandria.

## Generic Cbaracter.

Cal. 5-phyllus: foliolis 2 alæformibus coloratis. Legumers obcordatum biloculare.

## Specific Cbaracter and Synonyms.

POLYGALA mixta; floribus imberbibus folitariis fefflibus, foliis fafciculatis teretibus mucronulatis.
POLYGALA mixta; floribus imberbibus fefflibus, foliis teretibus mucronatis confertiffimis. Linn. Suppl. Pl. 316. Willd. Sp. Pl. 3. p. 891. Hort. Kew. ed. alt. 4. p. 245Bot. Repof. 455.
POLYGALA mixta; floribus imberbibus lateralibus, foliis fafciculatis trigonis crectis mucronato fpinofis. Tbunb. Prodo 121.

Descr. Stem fhrubby, with long flexile branches. Leaves fubulate, rigid, fmooth, terminated with a minute oblique mucro, collected in fafcicles of five or fix growing from the fame point. Thefe fafcicles are crowded together, oppofite at the lower part of the branch, giving a verticillate appearance ; but nearer the extremity they are alternate. Flowers folitary, reffile, or on very fhort pedicles, in the axils of the leaves. Calyx fmall, the lateral fegments larger than the reft, but feldom, if ever, coloured. Corolla femipapilionaceous, having no vexillum; ald rigid, erect, fubulate, white. Carina deeply channelled, of a faturated purple within: fides folded together, fo as
to include and firmly embrace the fyle and famens, which, when arrived at maturity, upon being moved, efcape elaftically from their confinement, and ftrike againft the two erect petals or alæ, by which the pollen is difperfed. The apex of the carina is expanded into a two-lobed, plain petal, the lobes of which are emarginate. This appendix is of a bright rofe colour, and forms the principal part of the flower; and, difperfed amongtt the green foliage in every part of the fhrub, gives it a pretty lively appearance. It continues in bloffom almoft throughout the year.

The fpecific name was probably given it from its mixed refemblance of Polygala alopecuroides and Heiferia; not, as has been faid, from the manner in which the flowers and leaves are mixed together.

Native of the Cape of Good-Hope. Requires the protection of the greenhoufe. Introduced by Mr. F. Masson, in 1789. Communicated by Meffrs. Loddiges and Sons.


# Polygala stipulacea. Stipuled Milk-wort. 



Clafs and Order.

Diadelphia Octandria.

## Generic Cbaraiter.

Cal. 5-phyllus: foliolis duobus alæformibus, coloratis. Legumen obcordatum, biloculare.

## Specific Character and Synonyms.

POLYGALA Aipulacea; floribus imberbibus axillaribus fubfolitariis foliis fafciculatis teretibus mucronulatis fubternis, ftipula concava obtufiffima.
POLYGALA fipulacea; floribus imberbibus lateralibus, caule fuffruticofo, foliis ternis linearibus acutis. Linn. Mant. 260. Burm. Prod. 20. Willd. Sp. Pl. 3. p. 892. Hort. Kew. ed. alt. 4. p. 246.
POLYGALA תipulacea; floribus imberbibus lateralibus, foliis folitariis filiformibus mucronatis glabris. Thunb. Prod. 121? HEISTERIA mitior. Berg. Cap. 187.
SPARTIUM africanum frutefcens, ericæfolio. Com. Hort. 2. p. 193.t. 97.

SUFFRUTEX ericæ forma, flore rubro elegantiffimo. Seb. Muf. 2. p. 63. t. 62.f. 8.

Descr. Stem fhrubby: branches fhort, rigid. Leaves in fafcicles, more ufually four together than three, rounded, thickened upwards, blunt-pointed with a minute oblique mucro. Each fafcicle is fupported by a fhort, thick, blunt, hollowed sipule. Calyx five-leaved: leaflets lanccolate, involving one another without any lateral petal-like expanfion. Flowers axillary, growing fingly or two together, of the brighteft purple colour
colour variegated with white. Corolla very like that of mixta, but the ale are tipped with purple, and the appendices of the carina are much more brilliant. The germen in this fpecies, in mixta, in Heiteria, and probably in the whole fection, except P. Cbamcbuxus, is terminated with four tooth-like proceffes. This character, together with the want of the petal-like expanfion of the calyx, feem to us to have been fufficient to reftore Linneus's original genus of Heisteria.

The fynonym always quoted from Thunberg is rendered doubtful, by his defcribing the leaves as being folitary, filiform, and acute; which terms are in no refpect applicable to our plant.

A hardy greenhoufe fhrub; native of the Cape of GoodHope. Flowers almoft throughout the year. Introduced in 1791. Communicated by Meffrs. Loddiges and Son.
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# [ 1716 ] <br> Verbesina alata. Wing-stalked Verbesina. 



Clafs and Order.
Syngenesia Polygamia Superflua.

## Generic Cbaraster.

Recept. paleaceum. Pappus ariftatus. Cal. duplici ordine. Flofuli radii circiter 5.

## Specific Cbaraiter and Synonyms.

VERBESINA alata; foliis alternis decurrentibus undulatis obtufis. Willd. Sp. Pl. 3.p.2221. Enum. 917. Hort. Kew. ed. alt. 5. p. 120. Scbkubr bandb. 3. p. 145. t. 256. Mart. Mil. Diet. n. 1. Gert. Fruct. 2. 457. 1. 171. Swartz Obf. 313. Kniph. Cent. 4. No. 93.

VERBESINA foliis oblongo-ovatis fubdentatis recurrentibus, floribus remotis terminalibus. Brown fam. 319.
CANNABIS indica, foliis integris, alato caule. Magn. Hort. 40. $i c$.

CHRYSANTHEMUM cannabinum americanum alatum, flore aphyllo globofo aurantio, baccharidis folio. Sloane Hit. 1. 261. Commel. Hort. 1. p. 5. t. 3.

CHRYSANTHEMUM curaffavicum alato caule floribus aurantiis. Herm. Parad. 125. ic. Morij. Hift. 3. p. 25. n. 87. CHR YSANTHEMUM americanum bidens alatum, flore parvo aurantiaco. Pluk. Alm. 100. t. 84.f. 3 .
CHRYSANTHEMUM conyzoide curaffavicum, abrotani feminx flore aurantio. Volk. Norib. 106. ic.

Verbesina alata differs from the reft of the genus not only in habit, but in having numerous florets in the radius, although thefe are fo fhort that at firft fight the flower appears to have mo radius at all; and alfo in having the feeds marginated with a
white membrane, with one arifta, hooked at the point and longer than the other.

When firft raifed from feeds, the whole plant is hoary ; but on the fecond year, the hoarinefs is depofited, and the colour of the leaves becomes of a fine dark green, which, contrafted with the brilliant orange-coloured flowers, adds much to the pleafing effect. So that thofe who treat it as an annual plant, never fee it in its moft perfect flate.

Native of South-America and the Weft-Indies. Requires to be kept in the flove. Flowers moft part of the fummer. Cultivated, as we learn from Morison, in the Botanic Garden at Oxford, in 1699. Our drawing was taken at the Right Hon. Lord Hollands, in Auguft 1812.


## [1717]

## Protea latifolia. Rayed-flowered

Protea.

Class and Order.
Tetrandria Monogynia.
Generic Charazter.-Vide No. 1713.

## Specific Charatter and Synonyms.

PROTEA laifolia; foliis late-ovatis femicordatis feffilibus, involucro fericeo tomentofo; bracteis interioribus anguftatis apice dilatato barbato, corolla tomentofa: ariftis hirfutis longitudine laminarum, fylo pubefcenti. Brown in Tranl. Linn. Soc. v. 10. P. 75
PROTEA radiata. Bot. Repof. 646.
ERODENDRUM eximiunn. Salijb. et Knight Prot. 41?

Our drawing of this beautiful fpecies of $\mathrm{P}_{\text {rotea }}$ was taken at Mr. Knight's Exotic Nurfery, in the King's-Road, Little Chelfea, in Auguft 1811.

A variety, with greenifh white flowers, is cultivated at the Hammerfmith Nurfery, Meffrs. Lee and Kennedy.

The Proteas are much admired for the variety, fingularity, and frequently the fplendour of their flowers; the beauty of which confifts chiefly in the involucrum.

Thefe plants have generally been confidered as very difficult of propagation, and not lefs fo of prefervation. But our modern cultivators have arrived at a better mode of treatment than was known in the days of Philip Milefr. Mr. Josephe Knight, in an Effay on the Cultivation of the Natural Order of Protex, has given very full directions for their management ; and fill more ample details may be found in the fecond edition of the Exotic Gardener, by J. Cushing, foreman to Meffrs. Lee and Kennedy. We are obliged for the following fatisfactory
factory mode of managing them, to Mr. R. Sweet, late of the Stockwell Nurfery, where we have obferved thefe plants to look remarkably well.

## Cultivation of the Natural Order of Proteacee.

In the firft place, it is neceffary that the pots fhould be well drained; for which purpofe, place over the hole in the bottom a piece of potfherd, then place another piece againft it, fo as to leave a hollow; after that put in a handful of potfherd, broken into pieces not larger than peas, and over thefe pieces ftill fmaller, till the pot is nearly one third-part full. This is applicable to the management of plants of almolt every family ; for, by thefe means, the water foaks gradually off, and the mould is not allowed to get fodden.

In the next place, for the genera Protea, Leucadendron, Leucofpermum, Spatalla, Sorocephalus, and Aulax; (vide Brown's Proteacea in the Tranfactions of the Linnean Society, vol. 10.) all the fpecies delight in a compofition of rather more than onethird fand, and the reft light loam without any peat. The genera Serruria, Nivenia, Grevillea, Hakea, Petrophila, Ifopogon, Bankfia, Dryandra, Lomatia, and Telopea, fucceed beft in three parts of peat, two parts loam, and one part fand. When potted, they do not require any particular care more than other greenhoufe plants, except to let them have plenty of air, to avoid letting them flag for want of water, and never to water them over the leaves in cloudy weather.

With regard to their propagation, let the wood be firft ripened, then take off the cuttings as nearly as poffible between the laft and prefent year's fhoot, pare them fmooth, and plant them in a pot of fand, not too clofe together, as they are apt to get the damp amongft them, which readily fpreads from one to another. Let the pots be then placed in the propagationhoufe, watering them whenever they want it, but not over the leaves. In this way Mr. Sweet has never found any of the fuppofed difficulty in ftriking any of this natural order; and even Telopea, the Embothrium Jpeciofiffrmum of the Botanical Magazine, he finds to Itrike as readily as any.


# Pelargonium radicatum．Flestiy 

 fringed－LEaved Crane＇s－bill。
Clafs and Order．
Monadelphia Pentandria。

## Generic Cbarailer．

Cal．5－partitus ：lacinia fuprema definente in tubulum capil－ larem，nectariferum，fecus pedunculum decurrentem．Cor． 5－petala，irregularis．Filam．10，inæqualia，quorum $3-6$ caf－ trata．Avilli 5，monofpermi，ariftati，ad bafin receptaculi roftrati ariltis fpiralibus introrfum barbatis．

## Specific Charazer and Synonyms．

PELARGONIUM radicatum；（acaulis radice rapacea）um－ bella fimplici，foliis ellipticis integerrimis ciliatis，petalis fuperioribus bafi macula duplici interrupte lineari notatis． Hort．Kerw．ed．alt．4．p．160．Epit． 209.
PELARGONIUM radicatum；umbellis fimplicibus，foliis ovali－oblongis，integerrimis，glabris，margine ciliatis，flo－ ribus pentandris ；petalis retufis．Vent．Hori．Malm． 65. GERANIUM ciliatum。And．Repgo 247.

Monf．Ventenat，who has given an excellent figure of this plant in the Jardin de Malmaifon，confiders it to be diftinct from the Pelargonium ciliatum of L＇Heretier，and has been followed by Mr．Dryander in the new edition of the Hortus Kewenfis．The ciliatum of Cavanilees and of Jaceuin，are alfo fuppofed by Ventenat to be at the fame time different from our plant and from one another．The lat－ ter differs remarkably in the ftrong hairinefs of the leaves over both furfaces．

This fpecies，as is the cafe with moft，if not with all in the turnip－rooted divifions，has only five fertile ftamens，and the pedicles
pedicles are erect while the flowers are in bud as well as when expanded : characters which, we have before remarked, feem fufficient to feparate them into a diftinct genus.

A tender greenhoufe plant. Native of the Cape of Good Hope. Communicated by Mr. Knight, of the Exotic Nurfery, and alfo by Meffrs. Colville and Son, of the King's-Road, who firf introduced it in 1802. Flowers in June and July.


## [ 1719 ]

## Sprengelia incarnata. Flesh-coloured Sprengelia.


Class and Order.
Pertandria Monocynia.

## Gencric Charater.

Cal. 5 -partitus, perfiftens. Cor. 5 -partita. Stam. receptaculo inferta. Capf. 5 -locularis, 5 -valvis: diffepimentis e medio valvularum, placentis columnæ centrali adnatis.

Specific Name and Synonyms.
SPRENGELIA incarnala ; antheris connatis barbatis, calycibus coloratis, foliis longe acuminatis. Brown Prod. p. 555 .

SPRENGELIA incarnata. Smitb's Traizs, 272. t. 2. et in Aic. Stockb. anno 1794, p. 260. t. 8. Bot. Rcpoo. 2. Willd. Sp. Pl. 1. p. 833. Hort. Kew. ed. alt. 1. p.320. Epit. 45.

The Sprengelia incaruala is a very ornamental flowering thrub of fmall flature, firft defcribed and figured by Sir James Ed. Smith, in the Tranfactions of the Royal Academy of Sciences at Stockholm, and afterwards in Englifh, with a figure from a living fpecimen, in a volume of trats relating to natural hiftory, naming it in honour of Christian Conrad Spren©el, Profeffor of Botany at Halte.

The flowers, which are very numerous, are produced at the extremities of the fhort branches, and are of long continuance. The calyx and corolla being much alike, and the lacinix of the latter, which are nearly white, with a pink tinge, exaclly alternating with the fegments of the calyx, of a deeper rofe colour, give a brilliancy to what might otherwife be confidered as rather an infignificant flower.

This plant is well defcribed by $\mathrm{Smith}_{\text {; }}$ but, according to Brown, the corolla is at firft monopetalous, with a very fhort tube, though it is finally divided to the bafe. The latter author has defcribed two fpecies, in the firft of which only, our prefent plant, the anthers are coherent; a circumftance which entirely deftroys the value of this character.
Native of New. South-Wales. Is readily propagated by cuttings; and requires the fame treatment as the Cape Heaths. Introduced in 1793, by Meffrs. Lee and Kennedy. Communicated by Mra R. SWeet.


## Erica Lawsoni. Lawson's Heath.

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Clafs and Order.
Octandria Monogynia。

## Generic Charater.

Cal. 4 -phyllus. Cor. perfiftens: limbo 4 -fido. Antbera ante anthefin per foramina 2 lateralia connexx. Capp. 4-8-locularis, $4-8$-valvis.

## Specific Cbaraiter and Synonyms.

Sezt. III. Conifore grandes. Corollæ inferne dilatato Semuncia longiores. B. Antheræ mutice Flores terminales. ERICA Lazefoni; bracteis calyci proximis, foliolis calycinis fubulatis, fligmate exferto, foliis ciliatis floribufque quaternis.

Descr. Sien a low, upright, pyramidal, branched fhrub. Leaves four together, oblong, ciliated at the edge with ftiff thort hairs, which are branched at the point of the leaf only, as far as we have obferved, and there barely vifible to the naked eyc. Flowers, which are of a bright rofe colour, grow at the extremities of the branches, either fingly, or more generally four together; but on the leading branches, the fhoot growing out beyond them, the flowers become in confequence axillary. Calyx of four fubulate leaflets, ciliated at the edge and coloured at the tip; bractes two, clofe to and like the calyx, but only half the length; there is a third at the bafe of the very fhort peduncle, but this we rather regard as the terminal leaf, from the axil of which the peduncle grows; nor is it coloured like the other two. Corolla urceolate : tube about an inch long, dilated and fomewhat diaphanous at the bafe, contracted upwards: lacinix of the limb ovate-acute with the margins more or lefs rolled
rolled inwards. Filaments almolt as fine as a fpider's thread: antbers beardlefs, within the tube. Germen oblong, without glands at the bafe : Jigma dark purple, nearly globular, without the tube.

This plant has very near affinity with Erica tenuiflora of the Hortus Kewenfis, from which it differs, not only in the colour of its flowers, but in having ciliated leaves and an exferted ftigma. In many refpects it correfponds alfo with Erica ferrulata, though the form of the corolla removes it into a different fection.

Our drawing was made from a plant communicated by Mr. R. Sweet. We have been favoured alfo with a fpecimen of the fame, from Meffrs. Lee and Kennedy, under the name that we have adopted, and from which our defcription was taken.

Native of the Cape of Good Hope. Flowers in May, June, and July.

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## [ 1721 ]

## Azalea calendulacea ( $\beta$.) crocea. Orange-coloured Azalea.



Class and Order.

Pentandria Monogynia。

## Generic Cbarazer.

Cor. campanulata. Stam. receptaculo inferta. Capf. 5 -locularis.

## Specific Cbaraizer and Synonyms.

AZALEA calendulacea; (fubnudiflora) foliis oblongo-ovalibus ciliatis: adultis hirfutis, corollæ tubo laciniis breviore pilofo fubvifcido, calyce villofo.
AZALEA calendulacea; (fubnudiflora) foliis oblongis utrinque pubefcentibus: adultis hirfutis, floribus amplis non vifcofis, calycis dentibus oblongis, corollæ tubo hirfuto laciniis breviore. Pur/b Fl. Am. Sept. 151. Micbaux Fl. Am. Bor. 1. p. 151 .
(a.) flammea floribus fanmeo-calendulaceis.
(ß.) crocea ; foribus croceis.
AZALEA calendulacea, Hort. Kew. Epit, inter addenda.

The flowers of this variety refemble very much thofe of Azalea pontica, but are without fcent. They are confiderably larger than any of the varieties of Azalea nudiflora; and the plant itfelf forms a loftier fhrub. In a genus which is numerous and fo exceedingly difpofed to run into varieties, it is extremely difficult to find good fpecific characters; the hairy calyx and tube fhorter than the border of the corolla, diftinguifh it from coccinea, (No. 180.) to which in foliage it is moft nearly allied. The flower is not entirely free from clamminefs. The flamecoloured variety is faid by Mr, Pursh to be, without exception,
the handfomeft fhrub in North-America. This author refers to Bartram's Travels, p. 321, where we find a fhrub \{poken of with flowers like a Rhododendron, but in fruit more refembling an Azalea. But this would appear to be very different from either of the above varieties, as the corolla is faid to be white with narrow fegments. Mr. William Bartram, however, and probably with juftice, claims the firft difcovery of this plant, as appears by a fpecimen in poffeffion of Sir Joseph Banks, collected by that traveller, about the year 1774 , accompanied with remarks; in which, in his ufual florid ftyle, he obferves, that ${ }^{66}$ it is the moft brilliant, fhewy, and gay flowering fhrub, perhaps, in the world; it grows four, fix, or eight feet high, increafes greatly by fuckers, and the flowers make a moft fplendid fhow in the vaft plains, and on the fides of the hills, in Weft-Georgia and lower Cherokee country, in the months of April and May. The flowers are of all fhades, from a pale cream colour to a fplendid golden yellow, orange, and moft perfect fcarlet or flame colour; and all thefe colours are fometimes feen on different branches of the fame plant, as well as on feparate plants, but a rofe-blufh or purple tint never occurs in the flowers of this fpecies."

Our drawing was made in the beginning of June 1812 , from a plant brought over by Mr. Lyons; we received fpecimens alfo from Meffrs. Fraser's American Nurfery, and from Meffrs, Loddiges and Sons.

# Hedysarum bupleurifolium. Hares-ear-leaved Hedysarum. 



## Clafs and Order.

Diadelphia Decandria.

## Generic Cbarailer.

Cal. 5 -fidus. Cor. carina tranfverfe obtufa. Lonentun articulis 1 -fpermis, compreflis.

## Specific Cbarazier and Synomyns.

HEDYSARUM bupleurifolium; foliis fimplicibus lanceolatis acutis, caule inermi, ftipulis fcariofis. Sp. Pl. $105^{1 .}$ Willd. 3. p. 1171 . Hort. Kew. ed. alt. 4. p. 339. Roxb. Corom. 2. p. 50. t. 194.
ORNITHOPODIUM madarafpatanum, bupleurifolio. Petiv. Gaz. 18. t. 11.f. 12.
HEDYSARUM gramineun. Willd. Sp. Pl. 3. 1172? Retz. Obf. 5.p.26. Wendl. Hort. Herrenbus. 1. p. 7. t. 5.

Wilidenow has expreffed a doubt whether the figures of Petiver and Plukenet do not belong to gramineum rather than to bupleurifolium. The latter was probably intended for neither, but is too bad to be referred with certainty to any thing; but Petiver's is really good, for a mere outline, and undoubtedly reprefents our plant. Hedysarum gramineum in Hortus Herrenhufen, does not appear to be different; and Retzius's defcription of the fame accords both with Roxburgh's and our figure of bupleurifoliunn. We camnot but conclude therefore that thefe plants in reality make but one fpecies, and that granineunn ought to be expunged from the fyftem.

A fmall perennial woody fpecies. Native of the Eaft-Indies; where it grows, according to Roxburgh, among long grafs in dry ground; flowering during the wet and cold feafons. With us it requires the heat of the bark flove. Propagated by feeds.



## Clafs and Order.

Pentandria Monogynia。

## Generic Character.

Cor. campanulata, fundo claufo valvis ftaminiferis. Stigmaz \&rifidum. Capf. infera, poris lateralibus dehifcens.

## Specific Cbaraiter and Synonyms.

CAMPANULA punctata; capfulis trilocularibus obtectis, caule fimplici erecto foliofo, foliis fubpetiolatis, floribus nutantibus. Willd. Sp. Pl. 1. p. 907.
CAMPANULA punEzata; hirfuta, foliis radicalibus petiolatis ovatis acutis ferratis, floribus cernuis interne punctatis villofis. Lamarck Encyc. 1. 579•
CAMPANULA calycibus e tergo lamellis quinque notatis, pedunculis unifloris. Gmel. Sib. 3. p. 155.t. 30.

The Campanula punczata is well reprefented by Gmelin, in the third volume of the Flora Sibirica; but was never taken up by Linneus, nor, we believe, did it ever appear in any general fyftem, till Lamarck inferted it in the Encyclopedie Botanique.

The fpotting of the corolla, being on the infide, fhews through rather faintly, but more evidently, when dried, than in the recent flower.

We were favoured with a living fpecimen of this very rare plant, the latter-end of February, by our friend A. B. LamBERT, Efq. who raifed it from Siberian feeds, at his feat at. Boyton. A hardy perennial. Native of Siberia; growing in the mountainous open country.

## Silene regia. Splendid Catch-fly.



Class and Order. Decandria Trigymia.

## Generic Cbaraczer.

Cal. monophyllus, ventricofus. Petala 5, unguiculata. Capfo fupera, femitrilocularis, apice dehifcens, polyfperma.

## Specific Cbaracter and Synonyms.

SILENE regia, (erecta, vifcofo-pubefcens) calycibus floris cylindricis, petalis lanceolatis indivifis, genitalibus exertis. SILENE virginica; var. illinoenfis. Micbaux Fl. Bor. Am. 1. p. 272.?

MUSCIPULA regia, Bannifterii. Petiv. Herb. Virg. ?

The Silene regia, though nearly related to virginica, muft, we apprehend, be confidered as a diftinct fpecies; for the latter is defcribed as being decumbent, and having bifid petals. It may perhaps be the variety found by Michaux in the Illinois country; and poffibly it may have been the fame that Bannister fent a defign of to the Bifhop of London. Whether it be fo or not, his name of regia cannot be badly applied to the moft fplendid plant of the genus. The flowers are reprefented to us as rivalling in brilliancy the Lobelia fulgens, a colour fcarcely to be imitated by art.

We had not the opportunity of feeing this plant whilf living, but upon examining the dried fpecimens in Mr. Lambert's herbarium, we find that the petals are fometimes emarginate.

Native of North-America. Found by Mr. Nuttal, growing fpontaneoufly in great abundance, in the environs of St. Louis, on the Mifffifippi ; from whofe feeds our plant was raifed in the garden of A. B. Lambert, Efq. at Boyton, where it grew to the height of between two and three feet.



# Swainsona coronillifolia. Purple- 

## flowered Swainsona.


Clafs and Order.
Diadelphia Decandria.

## Generic Cbarazer.

Cal. 5 -dentatus. Vexilunt explanatum, majus Carina obtufa. Sligma terminale. Stylus poftice longitudinaliter barbatus; antice imberbis. Legumen turgidum (non veficarium) Brown.-Swainfona, Salisb.-Loxidium, Venten. dec. genn nov.

## Specific Cbaraider and Synonyms.

SWAINSONA coronillifolia; vexillo bicallofo, caule fuffruticofo erecto, pedicello leguminis filamentis perfiftentibus (parum) breviore. Brown in Hort. Kero. ed. alt. 4. p. 327.
SWAINSONA coronillcefolia. Salijo. Parad. Lond. 28.
As this plant is a native of New South-Wales in Auftralafia, this circumftance, in itfelf, leads to a fufpicion that it ought to be confidered as a genus diftinct from Colutea, otherwile we own that we fhould hardly have been fatisfied with the characters by which the two genera are attempted to be diftinguifhed. The only contrafted points given in the Hortus Kewenlis are, that the fligma in Swainsona is terminal, in Colutealateral; and the flight difference in the confintence of the Legumen, which appears to us not very remarkable after maturity.

It was undoubtedly impoffible to feparate Swainsona from Colutea, whilft fruticofa and berbacea, which fwerve much more remarkably from the European fpecies, remained attached to the latter. Thefe are confequently raifed into diftinct genera by Mr. Brown.

The other fpecies of this genus has been already figured in the Botanical Magazine, under the name of Colutea (now Swainsona) galegifolia (vide $\mathrm{N}^{\mathrm{m} .} 792$.) Both fpecies, the only ones known in our gardens, though eafily diftinguifhed by the colour of their flowers, are botanically characterized, only by the difference of length of the pedicle of the feed-pod.

An ornamental low greenhoufe fhrub, with herbaceous branches. Communicated by Meffrs. Whitley, Brame, and Milne. Introduced in 1802, by the Right Hon. Sir Josephi Banks, Bart. K. B. Flowers moft part of the year. Propagated both by feeds and cuttings.
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